

IN THE CLAIMS:

Please cancel claims 1-60 and replace the claims as follows:

1 – 60. (Cancelled)

61. (New): An isolated DNA molecule comprising a nucleic acid sequence which comprises SEQ. ID NO. 1.

62. (New): The isolated DNA molecule of claim 61, wherein the nucleic acid sequence further comprises SEQ. ID NO. 9.

63. (New): The isolated DNA molecule of claim 61, wherein the nucleic acid sequence comprises a tissue-specific transcriptional regulatory DNA fragment.

64. (New): The isolated DNA molecule of claim 63, wherein the tissue-specific transcriptional regulatory DNA fragment is operatively linked to a nucleotide sequence encoding a heterologous expression product selected from the group consisting of β -galactosidase, luciferase, chloramphenicol acetyl transferase (CAT), green fluorescent protein (GFP), human growth hormone, alkaline phosphatase, β -glucuronidase, and combinations thereof.

65. (New): The isolated DNA molecule of claim 63, wherein the tissue-specific transcriptional regulatory DNA fragment further comprises SEQ. ID NO. 9.

66. (New): The isolated DNA molecule of claim 65, wherein the tissue-specific transcriptional regulatory DNA fragment is for directing expression in tissues and organs selected from the group consisting of heart, eyes, otic vesicles, hatching gland, anus, caudal fin and combinations thereof.

67. (New): The isolated DNA molecule of claim 63, wherein the tissue-specific transcriptional regulatory DNA fragment is for directing heart-specific expression.

68. (New): The isolated DNA molecule of claim 61, wherein the nucleic acid sequence further comprises SEQ. ID NO. 8.

69. (New): The isolated DNA molecule of claim 61, wherein the nucleic acid sequence further comprises SEQ. ID NO. 7.
70. (New): The isolated DNA molecule of claim 61, wherein the nucleic acid sequence further comprises SEQ. ID NO. 4.
71. (New): A transgenic zebrafish comprising the isolated DNA molecule of claim 61.
72. (New): The transgenic zebrafish of claim 71, wherein the transgenic zebrafish is a zebrafish embryo.
73. (New): The transgenic zebrafish of claim 72, wherein the zebrafish embryo is developed into an adult transgenic fish containing the expression sequence to direct the expression of the heterologous expression product.
74. (New): The transgenic zebrafish of claim 71, wherein the isolated DNA molecule further comprises SEQ ID NO. 9.
75. (New): The transgenic zebrafish of claim 71, wherein the isolated DNA molecule further comprises SEQ. ID NO. 8.
76. (New): The transgenic zebrafish of claim 71, wherein the isolated DNA molecule further comprises SEQ. ID NO. 7.
77. (New): The transgenic zebrafish of claim 71, wherein the isolated DNA molecule further comprises SEQ. ID NO. 4.
78. (New): The transgenic zebrafish of claim 71, wherein the isolated DNA molecule further comprises an expression sequence operably linked to a DNA sequence encoding a heterologous expression product, wherein the expression sequence is selected from the group consisting of a portion of a zebrafish bone morphogenetic protein 4 promoter region, zebrafish bone morphogenetic protein 4 proximal regulatory sequences, zebrafish bone morphogenetic protein 4 distal regulatory sequences, and fragments thereof.

79. (New): The transgenic zebrafish of claim 78, wherein the heterologous expression product is a reporter protein selected from the group consisting of β -galactosidase, luciferase, chloramphenicol acetyl transferase (CAT), green fluorescent protein (GFP), human growth hormone, alkaline phosphatase, β -glucuronidase, and combinations thereof.
80. (New): The transgenic zebrafish of claim 79, wherein the reporter protein is green fluorescent protein.
81. (New): The transgenic zebrafish of claim 78, wherein the expression sequence directs stable expression of the heterologous expression product.
82. (New): The transgenic zebrafish claim 78, wherein the expression of the heterologous expression product is transmitted through the germ line.
83. (New): The transgenic zebrafish of claim 78, wherein the expression sequence and the sequence encoding the heterologous expression product are contained in an exogenous construct.
84. (New): The transgenic zebrafish of claim 78, wherein the exogenous construct is integrated into the genome of the transgenic zebrafish.
85. (New): The transgenic zebrafish of claim 78, wherein the expression sequence is a tissue-specific expression sequence.
86. (New): The transgenic zebrafish of claim 85, wherein the expression sequence is a heart-specific expression sequence.
87. (New): An isolated DNA molecule obtained from upstream regulatory region of a zebrafish bone morphogenetic protein 4 gene and having a nucleic acid sequence which comprises SEQ. ID NO. 1.
88. (New): The isolated DNA molecule of claim 87, wherein the nucleic acid sequence further comprises SEQ. ID NO. 9.